

species, maturing its greenish-brown or drab umbels in early summer, and a stouter plant of broader southern range maturing its ferruginous umbels in late summer or fall. The New England forms of these plants may be summarized as follows:

Culms stout (just below the involucre averaging 3 mm. in diameter): leaves 4.5 to 11 (average 6) mm. wide: involucre usually ferruginous at base: scales and bristles ferruginous.

Spikelets ovate to ovoid-oblong, 3.5 to 6 (average 4.5) mm. long.

Rays of umbel elongated, ascending or spreading: spikelets in glomerules of 3 or more (eastern Maine, southward and westward).

S. Eriophorum, var. *cyperinus*, Gray.

Rays of umbel short (6 cm. or less in length): glomerules in dense masses (eastern Maine and eastern Massachusetts).

S. Eriophorum, var. *condensatus*, Fernald.

Spikelets oblong, 7 to 10 mm. long:

Rays of umbel elongated and pendulous: glomerules with many spikelets (central Connecticut). *S. Eriophorum*, var. *Andrewsii*, Fernald.

Culms slender (averaging 1.5 mm. in diameter): leaves 2 to 5 (average 3.5) mm. wide: involucre black at base: scales greenish black: bristles drab or olive-brown, not ferruginous.

Rays of umbel slender and elongated, with drooping tips (from central Connecticut northward). *S. atrocinctus*, Fernald.

Rays of umbel short; inflorescence capitate or subcapitate (northeastern Massachusetts northward, mostly in the mountains).

S. atrocinctus, var. *brachypodus*, Fernald.

THE LOCAL FLORAS OF NEW ENGLAND.

MARY A. DAY.

(Continued from p. 120.)

NEW HAMPSHIRE.

Coös, Carroll, and Grafton Counties (White Mountain Region):—

91. **Jesup, Henry Griswold.** CATALOGUE OF THE MORE COMMON PLANTS TO BE FOUND WITHIN TWELVE MILES OF HANOVER, N. H., DURING APRIL, MAY AND JUNE, BOTH NATIVE AND INTRODUCED. Hanover, N. H. 1879, pp. 14. Annot. catalog. *phaenog.* and *cryptog.*

92. — A PRELIMINARY CATALOGUE OF THE FLOWERING PLANTS AND HIGHER CRYPTOGRAMS GROWING WITHOUT CULTIVATION WITHIN THIRTY MILES OF HANOVER, N. H., TO WHICH IS APPENDED A LIST OF THE VERTEBRATES OF THE SAME REGION. Hanover, N. H. 1882, pp. 74. Annot. catalog. *phaenog.* and *cryptog.*

93. — A CATALOGUE OF THE FLOWERING PLANTS AND HIGHER CRYPTOGRAMS, BOTH NATIVE AND INTRODUCED, FOUND WITHIN ABOUT THIRTY MILES OF HANOVER, N. H., INCLUDING A FEW CULTIVATED SPECIES, TO WHICH IS APPENDED A LIST OF VERTEBRATE ANIMALS OF THE SAME REGION. Hanover, N. H. 1891, pp. 91. Map. Annot. catalog. *phaenog.* and *cryptog.*

94. **Oakes, William.** NOTICE OF SOME OF THE MOSSES OF NEW ENGLAND. Hovey's Mag. xiii. 1847, pp. 171-174. Annot. catalog. *cryptog.*
95. **Prime, William Cowper.** THE FLORA OF FRANCONIA IN SPRING-TIME. Lonesome Lake papers, N. Y. Jour. Commerce, June, 1882. Not seen.
96. **Pychowska, Lucia Duncan.** BOTANICAL NOTES MADE IN THE SUMMER OF 1882 AT RANDOLPH, N. H. Appalachia, iii. 1882-84, pp. 168-169. Select. spec., popular treatm. *phaenog.* N. H.
97. **Rafinesque-Schmaltz, Constantine Samuel.** FLORULA OF THE WHITE MOUNTAINS OF NEW HAMPSHIRE. Am. Month. Mag. i. 1817, pp. 440-441. List. *phaenog.* and *vasc. cryptog.*
Extracted from a paper published in N. E. Jour. Med. and Surg. for Oct., 1816, by Jacob Bigelow, under the title of Some account of the White Mts. of New Hampshire.
98. **Russell, John Lewis.** SOME CRYPTOGRAMOUS PLANTS GATHERED IN THE VICINITY OF KEARSARGE MOUNTAIN, NEW HAMPSHIRE. Hovey's Mag. ix. 1843, pp. 140-141. Select. spec., popular treatm. *cryptog.*

Hillsborough County : —

99. **Batchelder, Frederick William.** BIRDS AND FLOWERS OF NEW ENGLAND. Manchester Union, April 15, 1896 to December 16, 1897. 52 articles. Select. spec., popular treatm. *phaenog.* Mr. Batchelder's library.
Lists — no. 8, orchids; no. 15, Quercus; no. 26, Coniferae; no. 42, ferns; no. 51, trees.
100. **Blood, Henry Ames.** TEMPLE FLORA. In his History of Temple, N. H. 1860, pp. 185-187. Annot. catalog. *phaenog.* and *vasc. cryptog.* H. C.
"The material for this chapter was mostly furnished me by two highly educated ladies; one a former school-teacher in Temple, now a resident in New Ipswich, the other a native of Temple, now a teacher in Mt. Holyoke Seminary."
101. **Osgood, Lydia Dinsmore.** FLORA OF HANCOCK. In Hayward, W. W. History of Hancock, N. H., 1764-1889. 1889, pp. 60-66. List. *phaenog.* and *vasc. cryptog.*

Rockingham County : —

102. **Harris, William Samuel.** THE FLORA OF THE TOWN OF WINDHAM, ROCKINGHAM COUNTY, NEW HAMPSHIRE. In Morrison, L. A. Supplementary history of the town of Windham, N. H. 1892. Reprint, privately printed, 1892, pp. 31. Annot. catalog. *phaenog.* and *vasc. cryptog.*

Stratford County : —

103. **Chesley, Charles Henry.** A LIST OF PLANTS FOUND IN BARRINGTON AND ADJOINING TOWNS. *Manchester Union*, January 15, 22, 29, February 5, 12, 19, 26, 1898. Annot. catalog. *phaenog.* and *vasc. cryptog.*

VERMONT.

General works : —

104. **Frost, Charles Christopher.** CATALOGUE OF CRYPTOGRAMOUS OR FLOWERLESS PLANTS OF VERMONT. *Archiv. of Sci. and Trans. Orleans Co. Soc. Nat. Hist.* i. 1871, pp. 78-81, 111-117, 152-153, 192-195, 234-240, 249-252. Annot. catalog. *cryptog.* Not seen.
105. **Grout, Abel Joel.** A LIST OF THE MOSSES OF VERMONT WITH ANALYTICAL KEYS TO THE GENERA AND SPECIES. Published by the Botanical Department of the Univ. of Vermont. 1898, pp. 37. Annot. catalog. *cryptog.*
106. **Oakes, William.** CATALOGUE OF VERMONT PLANTS. In Thompson, Z. *Nat. Hist. Vermont*, 1842, pp. 173-208. Reprint. Annot. catalog. *phaenog.* and *vasc. cryptog.* Continuation of the same in Appendix, 1853, pp. 36-40, arranged by John Torrey.
107. **Orton, William Allen.** A PARTIAL LIST OF THE PARASITIC FUNGI OF VERMONT. 11th Ann. Rep. Vermont Exper. Sta. ii. 1897-98, pp. 202-219. Reprint, pp. 21. Annot. catalog. *cryptog.*
108. **Perkins, George Henry.** CATALOGUE OF THE FLOWERING PLANTS OF VERMONT. *Archiv. of Sci. and Trans. Orleans Co. Soc. Nat. Hist.* i. 1872-73, pp. 161-166, 181-190, 215-218, 231-234, 252-253. Annot. catalog. *phaenog.*
109. — CATALOGUE OF THE FLORA OF VERMONT, INCLUDING PHAENOGAMOUS AND VASCULAR CRYPTOGRAMOUS PLANTS GROWING WITHOUT CULTIVATION. Burlington, 1888, pp. 74. From the 10th Ann. Rep. of the State Board Agric. Annot. catalog. *phaenog.* and *vasc. cryptog.*
110. — A GENERAL CATALOGUE OF THE FLORA OF VERMONT. Montpelier, 1882, pp. 49. Annot. catalog. *phaenog.* and *vasc. cryptog.*
111. **Pringle, Cyrus Guernsey.** NOTES ON ALPINE AND SUBALPINE PLANTS IN VERMONT. *Am. Nat.* x. 1876, pp. 741-743. Select. spec., popular treatm. *phaenog.* and *vasc. cryptog.*
112. — THE WEEDS OF VERMONT. 1st Ann. Rep. State Board Agric. Vermont, 1872, pp. 266-292. Annot. catalog. *phaenog.* B. P.
113. **R[ussell, John Lewis].** SOME OF THE RARER PLANTS OF VERMONT. *Hovey's Mag.* xviii. 1852, pp. 481-485. Select. spec., popular treatm. *phaenog.* and *cryptog.*

114. **Williams, Samuel.** FOREST TREES, ESCULENT AND MEDICINAL VEGETABLES. In his Natural and civil history of Vermont, 1794, pp. 67-71. Annot. catalog. *phaenog.* B. A. Same in ed. 2, 1809, pp. 81-87. B. A.

Addison County:—

115. **James, Edwin.** CATALOGUE OF PLANTS [OF MIDDLEBURY, VT.]. In Hall, F. Statistical account of the town of Middlebury, in the State of Vermont. Part first, 1821. Afterwards printed in Thompson, Z. Statistical Gazetteer of Vermont, 1824. Reissued in Coll. Mass. Hist. Soc. ser. 2, ix. 1832, pp. 146-148. List. *phaenog.* and *vasc. cryptog.* B. P.

Chittenden County:—

116. **Eggleston, Willard Webster.** FLORA OF MT. MANSFIELD. Bot. Gaz. xx, 1895, pp. 72-75. Select. spec., popular treatm. *phaenog.* and *vasc. cryptog.*
117. **Preston, Howard Willis.** A BOTANICAL EXCURSION TO MT. MANSFIELD AND SMUGGLER'S NOTCH. Am. Nat. xvi. 1882, pp. 901-905. Select. spec., popular treatm. *phaenog.* and *vasc. cryptog.*

Orleans County:—

118. **Ridler, Charles Eaton.** FLORA OF WILLOUGHBY NOTCH (JULY 14, 1884). Appalachia, iv. 1884, pp. 64-68. Select. spec., popular treatm. *phaenog.* M. H.
119. **Rusby, Henry Hurd.** THE WILLOUGHBY LAKE AND MOUNTAIN FLORA. Bull. Pharmacy, January, 1893. Reprint. Annot. catalog. *phaenog.* and *vasc. cryptog.* F. G. Floyd's library.

Windham County:—

120. **Brown, Ann E.** WILLOWS [OF BRATTLEBORO, VT.]. Bull. Torr. Club, iii. 1872, pp. 26-27. Annot. catalog. *phaenog.*

MASSACHUSETTS.

General works:—

121. **Andrews, Charles Lowell.** CONTRIBUTIONS TO THE MYCOLOGY OF MASSACHUSETTS. Proc. Bost. Soc. Nat. Hist. v. 1856, pp. 321-323. List. *cryptog.* N. H.
122. **Cobb, Nathan Augustus.** A LIST OF PLANTS FOUND GROWING WILD WITHIN THIRTY MILES OF AMHERST. Northampton, 1887, pp. 51. Annot. catalog. *phaenog.* and *cryptog.*
123. **[Deane, Walter.]** FLORA OF THE BLUE HILLS, MIDDLESEX FELS, STONY BROOK, AND BEAVER BROOK RESERVATIONS OF THE METROPOLITAN PARK COMMISSION, MASSACHUSETTS. Preliminary edition. 1896. Boston, 1896, pp. 144. Annot. catalog. *phaenog.* and *cryptog.*

124. **Dewey, Chester.** REPORT ON THE HERBACEOUS FLOWERING PLANTS OF MASSACHUSETTS, ARRANGED ACCORDING TO THE NATURAL ORDERS OF LINDLEY, AND ILLUSTRATED CHIEFLY BY POPULAR DESCRIPTIONS, PROPERTIES, AND USES. Cambridge, 1840, pp. 277. Annot. catalog. *phaenog.*
Published agreeably to an order of the legislature, by the commissioners on the zoölogical and botanical survey of the state.
125. **Emerson, George Barrell.** A REPORT ON THE TREES AND SHRUBS GROWING NATURALLY IN THE FORESTS OF MASSACHUSETTS. Zoöl. and Bot. Survey of Mass., Boston, 1846, pp. 547. Illus. Descr. manual. *phaenog.*
— Ed. 2, under title TREES AND SHRUBS OF MASSACHUSETTS. 2 vols. Boston, 1875, pp. 624. Ed. 3, 1878. Ed. 4, 1887. Ed. 5, 1897.
Editions 3 to 5 reprints of ed. 2.
126. [**Flint, Charles Louis.**] CATALOGUE OF PLANTS. 7th Ann. Rep. Sec. Board Agric. Mass. 1859, App. i-xii. List. *phaenog.* and *vasc. cryptog.* M. H.
127. **Hitchcock, Edward.** CATALOGUE OF PLANTS GROWING WITHOUT CULTIVATION [IN THE STATE OF MASSACHUSETTS]. In his Rep. on Geol. Mass., 1833, pp. 599-651; also in ed. 2, 1835, pp. 604-651. Annot. catalog. *phaenog.* and *cryptog.* H. C.
128. — CATALOGUE OF THE ANIMALS AND PLANTS OF MASSACHUSETTS WITH A COPIOUS INDEX. Amherst, 1835, pp. 142. Annot. catalog. *phaenog.* and *cryptog.* Reprint from his Rep. on Geol. Mass., ed. 2.
129. **Hough, Franklin Benjamin.** LIST OF THE NATIVE TREES OF MASSACHUSETTS, WITH NOTES UPON SOME CERTAIN NATURALIZED SPECIES. In his Report upon Forestry, 1877, pp. 406-416. Washington, 1878. Annot. catalog. *phaenog.*
130. **Robinson, John.** DATE OF FLOWERING OF TREES AND SHRUBS, IN EASTERN MASSACHUSETTS, 1880. Trans. Mass. Hort. Soc. 1880, pp. 161-173. Reprint. List. *phaenog.*
131. — DATE OF FLOWERING OF TREES AND SHRUBS, IN EASTERN MASSACHUSETTS, 1881. Trans. Mass. Hort. Soc., 1881, pp. 348-358. List. *phaenog.*
132. **Russell, John Lewis.** ATTEMPT TO ASCERTAIN SOME OF THE HEPATIC MOSSES OF MASSACHUSETTS, WITH REMARKS. Bost. Jour. Nat. Hist. iii. 1841, pp. 465-469. Annot. catalog. *cryptog.* N. H.
133. — MUSCI OF EASTERN MASSACHUSETTS. Bost. Jour. Nat. Hist. v. 1845, pp. 172-188. Annot. catalog. *cryptog.* N. H.

(To be continued.)

Vol. 1, No. 6, including pages 95 to 120, was issued June 1, 1899.